

Figure 1

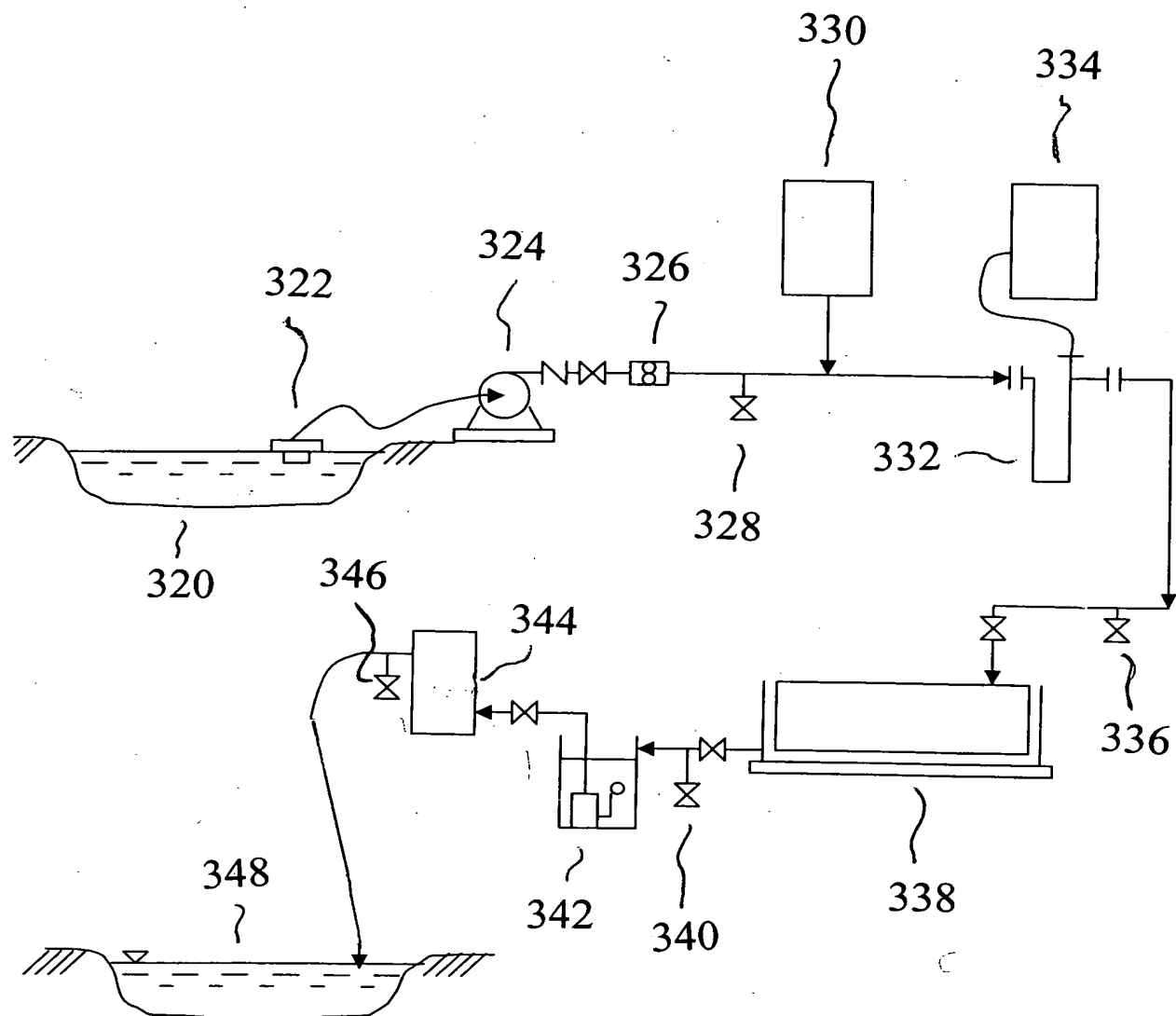
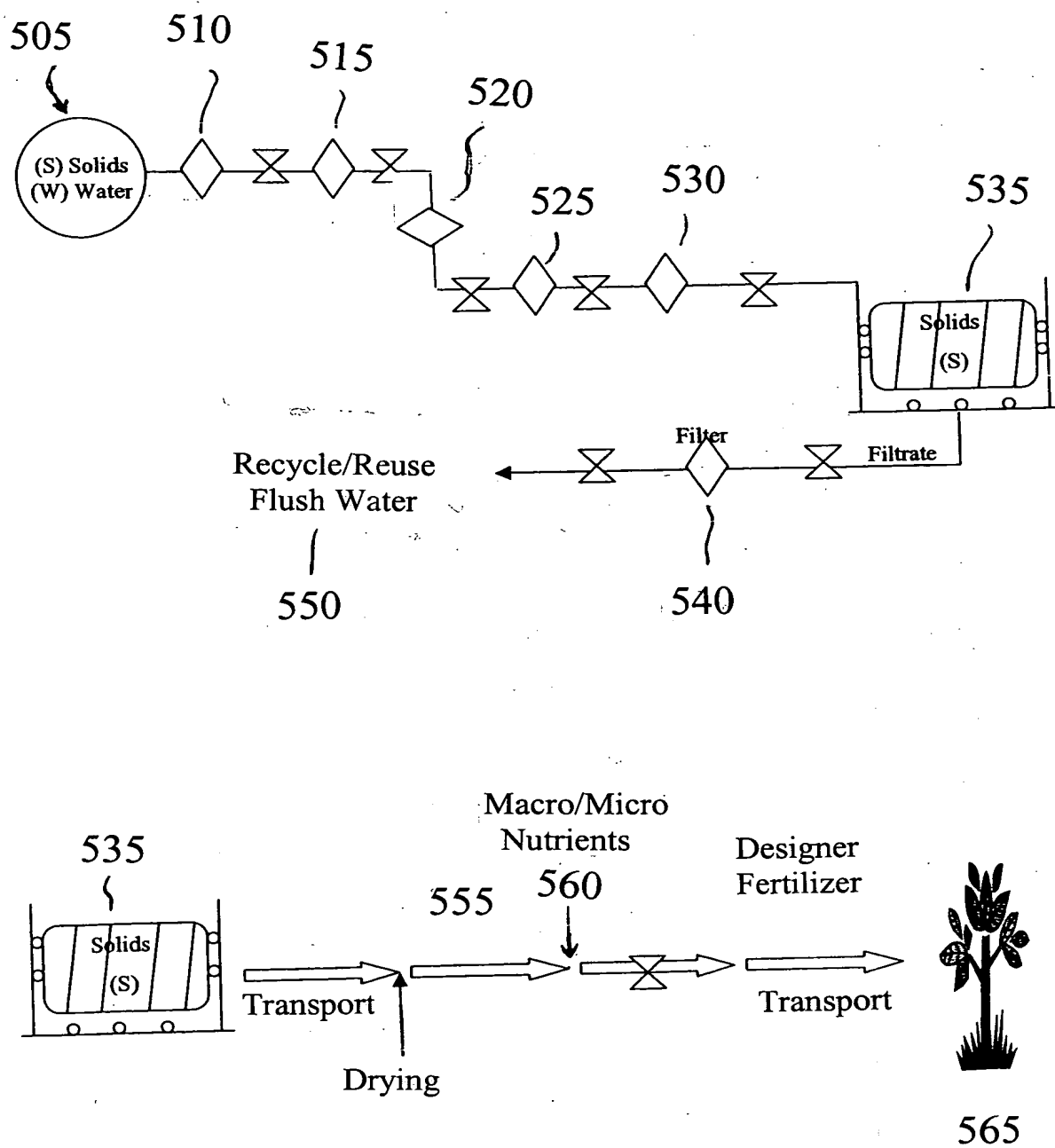


Figure 2



## Figure 3

Sample No.		1E	6E
Sample Description		Effluent Initial	After
Parameter	Units		
Alkalinity as CaCO <sub>3</sub>	mg/L	21,100	17,700
Biochemical Oxygen Demand (B.O.D.)	mg/L	5,210	5,680
Chemical Oxygen Demand (C.O.D.)	mg/L	36,300	39,600
pH		7.74	7.9
Total Dissolved Solids (TDS)	mg/L	900	7,800
Total Solids (TS)	% Wet	3.63	3.03
Total Solids (TS)	mg/L	38,700	42,900
Total Volatile Solids (TVS)	mg/L	21,800	26,600
Total Suspended Solids (TSS)	mg/L	37,800	35,100
Volatile Suspended Solids (VSS)		22,000	20,500
Acid Volatile Sulfides	mg/L ppm	305	202
Calcium	mg/kg ppm	32,300	40,200
Hardness as CaCO <sub>3</sub>	mg/L	5,930	5,880
Ammonia			
Ammonia as Nitrogen	mg/L	4,710	4,190
Nitrate	mg/L		
Nitrite as Nitrogen	mg/L	ND	1.9
Nitrate as Nitrogen	mg/L	ND	ND
Ortho-Phosphate as Phosphorus	mg/L	297	346
Total Phosphate	mg/L		
Total Phosphorus	mg/L	1,690	1,540
Total Kjeldahl Nitrogen	mg/L	6,940	6,770
Arsenic	mg/kg	ND	ND
Cadmium	mg/kg	ND	ND
Chromium	mg/kg	14.4	19
Copper	mg/kg	842	1,210
Lead	mg/kg	ND	ND
Mercury	mg/kg	ND	ND
Molybdenum	mg/kg	13.5	18
Nickel	mg/kg	37	49.5
Selenium	mg/kg	7.7	9.7
Zinc	mg/kg	2,060	2,370
Sulfur	mg/kg	307	348
Total Organic Carbon	mg/L	7,210	9,020
Heterotrophic Plate Count	CFU/100ml	2,940,000	3,600,000
Fecal Streptococcus	MPN/100ml	500,000	240,000
Escherichia Coli	MPN/100ml	>242,000	3,000
Fecal Coliform	MPN/100ml	7,000	3,000
Fecal Coliform (calculated)	MPN/g	1,809	699
Total Coliform	MPN/100ml	17,000	5,000
Enterococcus	MPN/100ml	500,000	240,000

Figure 4

Sample Description		Air Dried		
		Wet Solids	Solids	EarthSeal™
Parameter	Units			
Chemical Oxygen Demand (C.O.D.)	mg/kg	754,000		
pH		8.28	8.24	7.62
Total Solids (TS)	%	18.4	86.2	58.4
Total Volatile Solids (TVS)	%	56.7	56.1	56.7
Acid Volatile Sulfide	mg/L	1,960.0		
Calcium	mg/kg ppm	33,700	1,960	1,780
Ammonia as Nitrogen	mg/kg	128,000	445	668
Nitrite as Nitrogen	mg/kg	ND		
Nitrate as Nitrogen	mg/kg	ND	5.2	3.5
Ortho-Phosphate as Phosphorus	mg/kg	1,950	3,070	3,670
Total Phosphorus	mg/kg	32,900	39,400	39,800
Total Kjeldahl Nitrogen	mg/kg	56,300	33,100	42,300
Arsenic	mg/kg	3.8	<0.7	<0.7
Cadmium	mg/kg	ND	1.4	1.71
Chromium	mg/kg	10.9		
Copper	mg/kg	929	956	1,060
Lead	mg/kg	ND	5.14	4.42
Mercury	mg/kg	ND	<0.08	<0.08
Molybdenum	mg/kg	11.3	14.4	15.7
Nickel	mg/kg	19.9	21.2	20.7
Selenium	mg/kg	4.9	3.95	3.67
Zinc	mg/kg	2,160	1,780	1,810
Sulfur	mg/kg	9,320		
Total Organic Carbon	mg/L	30.9		
Heterotrophic Plate Count	CFU/g	9,950,000	15,500	3,350,000
Fecal Streptococcus	CFU/g	70,700	9,420	2,360
Escherichia Coli	MPN/g	*435	Int.	Int.
Fecal Coliform	CFU/g	435	<1	<1
Total Coliform	CFU/g	70,700	<1	131.9
Enterococcus	MPN/g	70,700	NT	NT
Key:				
ND= Non Detected				
NT= Not Tested				
Int.= Interference				
* = MPN/g (dry)				

Figure 5

SSEA Test Run No.		1	4	4	5	5
SSEA Sampling ID		1E	8F	9F	8F	9F
Analytical Lab Sample No.		1	8F	9F	28F	29F
Analytical Lab		CAS	CAS	CAS	TWISS	TWISS
Testing Desired						
	Units					
Alkalinity as CaCO3	mg/L	21,100	15,200	12,800	19,300	11,100
Biochemical Oxygen Demand (B.O.D.)	mg/L	5,210	3,610	3,130		
Chemical Oxygen Demand (C.O.D.)	mg/L	36,300	6,800	13,400	12,100	8,400
pH		7.74	8.32	8.23	8.24	7.62
Total Dissolved Solids (TDS)	mg/L	900	14,600	11,300		
Total Solids (TS)	% Wet	3.63				
Total Solids (TS)	mg/L	38,700	19,200	22,900		
Solids Volatile (vs)	mg/L		8,320	8,120		
Total Volatile Solids (TVS)	mg/L	21,800	130	270		
Total Suspended Solids (TSS)	mg/L	37,800	270	760		
Volatile Suspended Solids (VSS)	mg/L	22,000				
Acid Volatile Sulfides	mg/L ppm	305	39.5	1.2		
Calcium	mg/kg ppm	32,300	NT	241,000	4,970	24,700
Hardness as CaCO3	mg/L	5,930		155	160	1,200
Ammonia as Nitrogen	mg/L	4,710	4,410	2,140	462	388
Nitrite as Nitrogen	mg/L	ND	ND	2		
Nitrate as Nitrogen	mg/L	ND	ND	16	1.14	7.44
Ortho-Phosphate as Phosphorus	mg/L	297	282	148	274	26.6
Total Phosphorus	mg/L	1,690	290	172	300	176
Total Kjeldahl Nitrogen	mg/L	6,940	5,050	2,500	4,070	884
Arsenic	mg/kg	ND	NT	*ND	2.95	3.74
Cadmium	mg/kg	ND	NT	*ND	<0.053	0.41
Chromium	mg/kg	14.4	NT	*210		
Copper	mg/kg	842	NT	*2080	85.3	85.5
Lead	mg/kg	ND	NT	*ND	<0.42	1.78
Mercury	mg/kg	ND	ND	*ND	<0.04	<0.04
Molybdenum	mg/kg	13.5	NT	*146	6.53	5.51
Nickel	mg/kg	37	NT	*857	48.9	24.6
Selenium	mg/kg	7.7	NT	*123	7.53	4.39
Zinc	mg/kg	2,060	NT	*3070	129	71
Sulfur	mg/L	307	159	169		
Total Organic Carbon	mg/L	7,210	5,390	4,540		
Heterotrophic Plate Count	CFU/100ml	2,940,000	695,000	620,000	**283,177.57	**29,894,737
Fecal Streptococcus	MPN/100ml	500,000	300,000	280,000	**3,060,748	**3,473,684
Escherichia Coli	MPN/100ml	>242,000	ND	ND	Int.	Int.
Fecal Coliform	MPN/100ml	7,000	20	ND	<1	<1
Fecal Coliform (calculated)	MPN/g	1,809				
Total Coliform	MPN/100ml	17,000	1,300	1,400	**11,023	**13,053
Enterococcus	MPN/100ml	500,000	130,000	30,000	NT	NT
Key:						
ND = Non- Detect						
NT = Non- Tested						
Int. = Interference						
* = In units of ppb						
** = In Units of CFU/g						